

Tree Resource Improvement & Maintenance (T.R.I.M.)



Application Workbook

*Missouri Department of Conservation
Forestry Division
Community Forestry Program
Spring 2006*

Check List for Success

- Send two copies of complete application.
- Double check your math on the *Estimated Project Costs Worksheet* and *Cost Share Request Form*.
- Be sure your **Concise Narrative** addresses all of the bulleted points. Consider using each bulleted point as a heading to be sure you address all areas.
- Keep your **Concise Narrative** crisp and to the point. A maximum of 2-3 pages is recommended.
- Clearly label all maps.
- The **Itemized Budget** must clearly explain all costs listed on the *Estimated Projects Costs* and *Cost Share Request Form*. The review committee will need a clear understanding of how you arrived at all costs associated with your project.
- If you are planting trees, be sure to include a **Three Year Maintenance Plan**. The plan must clearly outline the activities that will be undertaken and it must identify the person responsible for assuring that the work is carried out.

WHAT’S INSIDE...?

Requirement 1
Estimated Projects Costs and Cost Share Requests Form1

Requirement 2
Concise Narrative3

Requirement 3
Location & Planting Map4

Requirement 4
Itemized Budget.....5

Requirement 5
Three-Year Maintenance Plan (only for projects involving tree planting)6

Requirement 6
Letter of Permission.....7

Requirement 7
Two Copies of Entire Application.....8

Check List.....8

Missouri Department of Conservation Contact List.....9

Hazard Tree Recognition10

Tree Planting Specifications.....11

Inspection Specifications13

Appendix A
Model Application

Appendix B
Sample Long Range Plan

REQUIREMENT 1

Estimated Project Cost and Cost Share Request Form

Preparing ESTIMATED PROJECT COST WORKSHEET

Applicant & Project Information

The first part of the request form asks for project information. Please be sure to:

1. Provide all requested information
2. Make sure the address given is one where pertinent information can be mailed.
3. Clearly indicate all types of activities that your proposed project will involve regardless if cost is associated with them.

Provide Costs Associated with Project

Now list project cost estimates. This section should be completed after you obtain all necessary estimates (i.e. estimate from a nursery, a consulting forester, a professional arborist). The estimates should be on the company's letterhead. You will want to have the estimates in front of you because you will refer to them frequently when filling out the worksheet.

**** Remember to clearly document all administrative costs, in-kind labor, donations and discounts. The review committee must clearly understand how you arrived at amounts for each cost.****

A. Reimbursable Costs

Start by filling out the *reimbursable* costs section. These are examples which are eligible for cost share funding.

Reimbursable costs include:

- 1) Contract fee to develop tree management plan, materials, inventory, etc.
- 2) The purchase of materials
- 3) Rental of equipment

B. Non-Reimbursable Costs

Now fill out the *non-reimbursable* costs. These are expenses which may be part of your project, but which cannot be funded by cost share. They may be used to fulfill your part of the match.

Non-Reimbursable costs include:

- 1) Administrative costs
- 2) Paid employee labor (tree care, education, inventory, planting, etc.)
- 3) Donated materials
- 4) Nursery discounts (must be shown on planting costs estimates)

C. Total Estimated Project Cost

Sum the *Reimbursable Costs* and sum the *Non-reimbursable Costs*. Transfer those amounts to the back of the form, Line C.

REQUIREMENT 1 (continued)

Preparing COST SHARE REQUEST FORM

C. Total Estimated Project Cost (cont)

Enter the amount from Line C, front of form.

D. MDC Cost Share Computation

Calculate the MDC share by taking 60% of the *Total Estimated Project Cost*, and enter it on the space provided.

If your community is a Tree City USA take an additional 15% of the total project cost and write the number on the *Tree City USA Bonus* line. To figure the *Total MDC Cost Share* add together the *MDC Cost Share* and the *Tree City USA Bonus*.

If your community won a Missouri Arbor Award of Excellence in the past 12 months, take an additional 5% of the total project cost and write the number on the Missouri Arbor Award of Excellence Bonus line.

**** Remember the Total MDC Cost Share can not exceed the total of reimbursable costs figured in the Estimated Project Costs worksheet. Compare the *Total MDC Cost Share* and the *Reimbursable Costs* total and enter the smaller amount on the line for *Total MDC Cost Share*.****

Signatures

A. Applicant

The last section of the Request Form requires the signature of the individual making the application.

B. Missouri Department of Conservation Forester Signature

A minimum of 15 days prior to the application deadline you must have consulted about your project with the MDC forester who works in your county.

The purpose of this consultation is to allow MDC to identify problems associated with your project early enough that you can make some adjustments prior to the application deadline. The consultation *does not* guarantee that your project will be funded.

If it is physically impossible for the forester to sign your form it is permissible to submit documentation *from* the forester with your application indicating that he/she has reviewed your project and they are not aware of any concerns or problems associated with it. That documentation may be a letter, an e-mail, etc.

REQUIREMENT 2

Concise Narrative

Your application must include a narrative that describes exactly what you are proposing to do. You must connect your proposed project to long-range goal for your community forestry. How does your proposed project fit with a planned approach to tree management?

Be sure that your narrative includes detail on the following:

- How this project fits your tree management program
- Participants and their roles (employees, contractors, volunteers, business or civic sponsors, etc.)
- Facilities and equipment needed to accomplish project
- A project completion timetable
- Name and address of individual charged with administering the project
- End product or result of project

The narrative is your opportunity to sell your project. Choose your words carefully. You must address the above points but strive to keep this requirement to less than 3 pages.

REQUIREMENT 3

Maps

Location Map

Include a map which shows where your project will be located within the community. You may use a city or county street map with the site marked or highlighted. If a sketch is drawn, show major highways, streets, and central business district. For rural areas, show proximity to roads, towns, and other important features.

If you've proposed activities such as an inventory or ordinance development which include all or most of a community, you can attach a label on the map indicating that the proposed project encompasses the entire town.

Tree Planting Map

If your proposed project involves any tree planting you will need to provide an accurate plan view drawing of the proposed planting project. This plan view drawing should include buildings, utilities (above and below ground), streets, walks, existing trees, a north arrow and a scale.

Your map must be clear enough that someone unfamiliar with your project would know the exact location and type of each tree to be planted. The planting map must show individual trees and the place where you will plant them.

The tree planting map need not be professionally drawn. It simply must clearly show what you are proposing.

Please work closely with your MDC forester to assure that you've chosen the right trees for the location you are planting. You might look at the free MDC publication called *Missouri Urban Trees*. This color booklet will help you match planting site conditions to tree requirements. It is available on the web at <http://www.mdc.state.mo.us/forest/urban/urbantree/index.shtml>.

In general projects which propose planting a diversity of trees are more desirable than those which are heavy to one single type of tree. Strive for a mix of at least three different types of trees to minimize damage or loss from weather, insects, diseases, etc.. For example oak, ash, and maple would provide more diversity than sugar maple, red maple, and amur maple.

If you feel that planting one single species is appropriate and desirable for your planting site, you should take a few minutes in your narrative to explain why.

REQUIREMENT 4

Itemized Budget

Secure cost estimates for the proposed project from a nursery, consulting forester, professional arborist or other sources as needed to complete your project. Cost estimates must be written on the company's letterhead.

It may be to your advantage to obtain two or more estimates to compare costs. However, only the estimate(s) which are used to develop the costs on your *Estimated Project Cost Worksheet* and *Cost Share Request Form* should be included in your proposal.

Tree Planting Projects

If you are planting trees, the estimate should include:

1. A complete list of the trees to be planted, including tree size and species.
2. The planting costs. Please ask the tree supplier to list the tree planting costs separately as some of the costs are reimbursable and some are not.
3. The contract supplier **must** guarantee one year's survival on all trees. This should be clearly stated on the estimate.

If you are using paid employees to plant the trees, base your estimate on actual labor costs. If you are using volunteers to plant or install trees, estimate volunteer time at the rate of \$10.00 per hour per person.

You or your planting contractor must use the tree planting details enclosed with the application. If trees are not planted to these specifications, the inspecting MDC forester will have the option to withhold funding until the trees are properly installed. See your MDC forester about any variance from these specifications.

REQUIREMENT 5

Three-Year Tree Maintenance Plan

If your project involves tree planting, you will need to include with the application a three-year maintenance plan which describes in detail post-planting tree care procedures and who will be the caretakers. The maintenance plan must minimally include watering, controlling of pests and re-mulching for three years after planting.

Take the time to develop this section fully. You must show that you clearly have the capability, resources, and people to assure that the trees are adequately maintained. This section gets close scrutiny.

It is permissible to use volunteers to do the work but you should outline a back-up plan in case the volunteers fail to show or not be available during the summer.

REQUIREMENT 6

Letter of Permission

Projects must be located on **public property**, but the applicant can be anyone or any group. Public property includes land owned by a city, county, or state agency and land owned by a public school, volunteer fire department, etc. Private schools or institutions and property owned by federal governments do not qualify for funding.

If you are proposing a project on public property that you do not directly manage or own, you must include a letter of support from the department or agency which owns the property.

For example:

- A neighborhood association wants to improve a neighborhood park by inventorying the trees, removing dead ones, planting new ones, etc. A letter of support from the city parks department would be needed for the application to be funded.
- A community wants to plant trees on state highway right-of-way to reduce noise. A letter of support from the Missouri Department of Transportation would be necessary.

REQUIREMENT 7

Two Copies

Two complete copies of all documents are required for each application. This is especially important to assure that good quality maps are submitted. If two copies of all elements are not sent the application will be incomplete and cannot compete in the cost-share program.

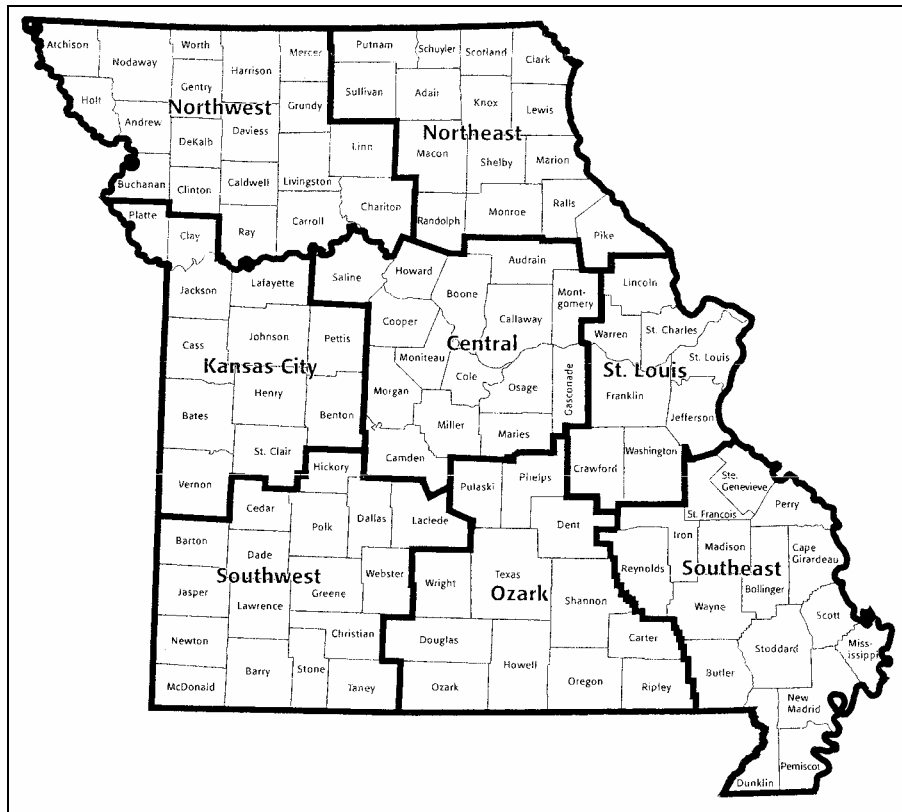
CHECK LIST

To make sure your application is complete use the following checklist.

- *Estimated Project Costs/Cost Share Request Form*
- Concise Narrative
- Location Map
- Plan View Drawing (if tree planting)
- Itemized Budget
- Three Year Maintenance Plan (if tree planting)
- *Cost Share Request Form* must be signed by Applicant and MDC Forester
- Letter of Permission (if applicable)
- Two Copies of the Entire Application

MISSOURI DEPARTMENT OF CONSERVATION

CONTACT LIST



Central Regional Office

1907 Hillcrest Dr.
Columbia, MO 65201
(573) 884-6861

Kansas City Regional Office

3424 NW Duncan Rd.
Blue Springs, MO 64015
(816) 655-6250

Northeast Regional Office

2500 S. Halliburton
Kirksville, MO 63501
(660) 785-2424

Northwest Regional Office

701 James McCarthy Dr.
St. Joseph, MO 64507
(816) 271-3100

Ozark Regional Office

PO Box 138
West Plains, MO 65775
(417) 256-7161

St. Louis Regional Office

2360 Hwy. D
St. Charles, MO 63304
(636) 441-4554

Southeast Regional Office

2302 County Park Dr.
Cape Girardeau, MO 63701
(573) 290-5730

Southwest Regional Office

2630 N. Mayfair
Springfield, MO 65803
(417) 895-6880

HAZARD TREE RECOGNITION

Most of us recognize the value and enjoyment that trees add to our everyday lives whether in a forest setting, a streetscape, a park, or in our own yard. However, we are often unaware of the danger that exists associated with tree defects that can potentially cause death, personal injury or property damage.

Interest in hazard trees and their management has dramatically increased in recent years due to liability concerns resulting from court decisions and preventable accidents. Recognizing tree defects that lead to hazardous trees is the first step in taking the corrective management actions to protect lives and property.

A tree is recognized as being “hazardous” when two conditions are met:

1. The tree has structural defects that are likely to cause the failure of all or part of the tree.
2. The tree has “targets” beneath it that could be struck by all or part of the tree as a result of tree failure. These targets are most commonly; people, vehicles, buildings or objects such as street lights, picnic tables or fences.

Please note that a tree is not hazardous just because it is “ugly”, produces an unwanted fruit (sweetgum balls), or its root system is causing problems (pushing up sidewalks).

Hazardous defects are the visible signs that a tree is failing, but recognizing and evaluating these defects is a complex process that requires a professional. Besides knowing how tree species, tree condition and tree age relate to tree safety, this person must be able to identify hazardous tree defects such as dead wood, weak branch unions, cracks, cankers, decay, poor tree architecture, and root problems.

For the purpose of the *Tree Resource Improvement and Maintenance* cost share program, hazard tree evaluation should be performed by either an ISA Certified Arborist (see ISA website search at <http://www.isa-arbor.com/findArborist/findarborist.asp>) or a SAF Certified Forester. In the absence of either of these two professionals, please contact your local Missouri Conservation Department Forester for assistance (see listing of MDC regional offices, Page 9).

TREE PLANTING SPECIFICATIONS

The key to giving your trees a healthy start is to use good planting procedures.

Selecting Trees

Consider the limitations of the planting site, the purpose for the tree, and each tree's unique growing requirements before selecting the type of tree to be purchased. Before purchasing check to be sure that the new tree does not have a great deal of soil added over the root flare. The root flare is the point where the top major roots extend out from the tree trunk. Unfortunately many new trees have the root flare buried under several inches of soil. This is to be avoided if possible.

Determine the Proper Planting Depth (Figure 1 goes with this section)

Trees should be planted with their top major roots even with the soil line. Trees planted at the wrong depth do not develop well and may have shortened life spans. Excess soil should be removed before planting and the tree planted at the correct depth.

For balled and burlaped trees, gently poke a stiff wire through the burlap next to the tree trunk until you hit a root. Note the depth. Check in two or more locations around the trunk. Leave the burlap in place to do this to make moving the tree easier. The distance from the buried root to the bottom of the ball is the correct depth to dig your hole. Carefully remove the excess soil from the top of the root ball once it is in the planting hole. Container trees should have the soil carefully removed from the top exposing the root flare and then planted.

The Planting Hole (Figure 2 goes with this section)

Excavate a pit at least twice the diameter of the rootball and the deep enough to place the root flare even with or up to one inch higher than the soil line. Handle the tree by the rootball, not the trunk. Be sure the rootball or container soil rests on solid ground to prevent settling.

Carefully cut twine wrapped around the stem at the top of the root ball.

Be sure to remove:

1. All excess soil on top of the ball just exposing the root flare
2. Burlap from the top half of the root ball to prevent wicking of moisture from the soil
3. Any container holding the root system
4. The wire basket from around the root ball.
5. All tags, labels and strings

Backfill Soil

Make sure the tree is straight before backfilling. Use the same soil that came out of the pit. Finely chop the soil and remove any stones or debris. Avoid potting soil, peat moss or other amendments. Fill the hole halfway, watering thoroughly as you go, then finish backfilling. Work the soil around the ball gently so that no air pockets are left. Firm the soil so the tree is vertical and adequately supported, but do not pack the soil.

Water

Saturate the entire backfilled soil with water. A slow gentle soaking is preferable. Add more soil if needed to compensate for settling.

TREE PLANTING SPECIFICATIONS

(Continued)

Mulch

Cover smoothed soil with 3 inches of wood or bark chips shaped in a doughnut 2-3 feet wide leaving a small gap near the trunk. Do not mound mulch onto the trunk of the tree. Black plastic, grass clippings, or sawdust should not be used as mulch. Keep mulch weeded. Replace as needed.

Pruning

Remove **only** broken or badly deformed branches the first year. Begin a regular pruning program the second or third year after planting

The following procedures are optional:

Stakes

Stakes may be used to prevent shifting of the root ball or to protect the stem from mowing equipment. If needed, the tree should be guyed strongly enough to provide support, but flexibly enough to allow 6-8 inches of sway. Drive one or more stakes near the tree but not through the roots.

The best guying materials are wide and flexible, such as plastic horticultural tape or canvas webbing. If guy wires are used, place them through tubing or hose sections to prevent damage to the bark. All guys/ties should be placed low on the trunk. Remove guys/ties as soon as the tree can stand alone – about 3 months but no longer than a year.

Trunk wrap

Research indicates that trunk wraps provide little, if any benefit to trees. In fact, they can encourage damaging insects or disease-causing fungi. Avoid using trunk wraps unless specifically recommended.

Planting in Compacted Soils (Figure 3 goes with this section)

To test for compacted soil, do a simple percolation test. Dig a 12" to 18" deep hole and fill it with water. If any water is still in the hole 12-18 hours later....then you have compacted or heavy clay soils.

Roots need oxygen so excavate a wide, shallow hole which is 3-4 times the width of the rootball or container and only 1/2 as deep. Mound backfill soil slightly to the top of the root flare covering the entire excavation. This creates a raised planting bed which will improve the tree's performance. Soils which hold excessive moisture may need a subsurface drain tube installed below the root ball.

INSPECTION SPECIFICATIONS

How Do You Get Your Money?

Once you've completed your project you must notify your Missouri Department of Conservation Forester in writing that the work has been completed. That written notification must include a copy of all invoices and documentation of all in-kind costs on official letterhead. The work will then be inspected by a representative of the Missouri Department of Conservation.

If your project involves **tree planting** the forester will:

- **Verify tree species:** ID tags should remain on tree until final inspection. This will enable the inspector to verify that tree species match the planting plan.
- **Verify the size:** Size of tree planted must match the specifications from tree plan. This measurement is based on the diameter at 6 inches above the first set of roots extending from the main stem or trunk. Evergreen trees are based on overall height of the tree, not including the rootball or the container. Remember deciduous trees must measure from 1 to 3 inches in caliper and evergreen trees must be 6 to 12 feet in height.
- **Check the tree planting depth.** Make sure tree is not planted any deeper than the first extending root from main stem or trunk. Trees should not be planted on top of the ground. In compacted soils, the maximum that the rootball should be extended above ground is 1/3 of the total rootball.
- **Check the mulch application.** Mulch should **not** be piled against trunk of the tree. See MDC's guide *Mulch: Your Tree's Best Friend*, which can be found at <http://www.mdc.state.mo.us/documents/forest/urban/F00111.pdf>
- **Inspect the rootball.** Burlap should be pulled back or removed from around the trunk and or the rootball of the tree. The ties must be cut away from the trunk and or the rootball.
- **Inspect for removal** of staking and wrap ties attached to trunk of tree.

If your project involves an **educational activity**, the forester will:

- Request a copy of all printed material
- If a workshop was held, a list of all attendees must be submitted along with the workshop date, time, location, speakers, and topics.

If your project involves **tree pruning or removal**, the forester will:

- Verify the number and location of all trees pruned and/or removed.
- Verify that all trees were pruned according to *ANSI A300 Tree Shrub and Other Woody Plant Maintenance - Standard Practices*. No work will be approved that does not conform to these standards.

Once your project has passed field inspection, the forester will request payment. It normally takes 4-6 weeks for a check to arrive after the forester requests payment. The final decision on payment rests with the program coordinator, Justine Gartner. All questions about payment should be directed to her at phone number 573-522-4115 ext 3116 or at email Justine.Gartner@mdc.mo.gov.

Appendix A

Sample Application

T.R.I.M. Estimated Project Cost Worksheet

Applicant City of Redbud Contact person Suzie Cue
Address P.O. Box 0001
Phone (111) 555-4390
City/State/Zip Redbud, MO 65555 County Cypress
Project Location Broad Street
Mo. Representative for project area Joe Smith Mo. Senator for project area Jane Smith

Project Type (check all that apply):

☐ Inventory ☒ Removal ☐ Pruning ☒ Education ☒ Planting ☐ Other

Provide costs only for all items associated with your project.

A. Reimbursable Costs

Amount

1. Contract fee (tree management plan, material development, inventory)	
2. Contracted labor (tree removals, pruning, planting, inventory)	<u>4,950</u>
3. Purchased materials for inventory or tree work	
4. Equipment rental (inventory, planting or other tree work)	
5. Education (training course fees, program materials)	<u>1,800</u>
6. Tree planting plan preparation fee	
7. Trees for planting and delivery, less any discount	<u>2,922</u>
8. Purchased materials for planting (stakes, mulch)	
SUBTOTAL	\$ <u>9,672</u>

B. Non-reimbursable Costs

1. Administrative costs (tree care, education, inventory)	<u>450</u>
2. Paid employee labor (tree care, education, inventory)	<u>670</u>
3. Donated labor (tree work, planting or inventory (at \$10/hr))	
4. Donated equipment costs	
5. In-kind equipment	
6. Donated materials (stakes, mulch, etc.)	
7. Discount or credit for trees or tree planting	<u>1,118</u>
8. Other	
SUBTOTAL	\$ <u>2,238</u>

C. Total Estimated Project Costs

(Add above and round to nearest dollar.)

\$ 11,910

Transfer total to back side of form

Please complete Cost Share Request Form on reverse side.

T.R.I.M. Cost Share Request Form

Applicant City of Redbud Contact person Suzie Cue
Project Location Broad Street

C. Total Estimated Project Costs

\$ 11,910
Amount from front side of form

D. MDC Cost Share Computation

MDC Cost Share \$ 7,146
(60% X Total Estimated Project Cost)

Tree City USA Bonus \$ N/A
(15% X Total Estimated Project Cost)

NOTE: To qualify for bonus, project must be located in a community that is currently certified as a Tree City USA.

Missouri Arbor Award of Excellence Bonus \$ N/A
(5% X Total Estimated Project Cost)

NOTE: To qualify for bonus, applicant must be the winner of an MAAE award in the last 12 months.

SUBTOTAL
Add all amounts in D (above): \$ 7,146

SUBTOTAL REIMBURSABLE COSTS
Enter the SUBTOTAL from A on front side: \$ 9,672

TOTAL MDC COST SHARE \$ 7,146
Enter the smaller of the above two lines. Total MDC Cost Share cannot exceed Reimbursable Costs. Maximum available is \$10,000.

E. Local Cost Share Computation

Total MDC Cost Share subtracted from Total Estimated Project Costs \$ 4,764

I certify that funds received through the Tree Resource Improvement and Maintenance program will be used only for the care of trees or planting of trees on public property, as noted in this application. I certify that all trees subject to this contract will be pruned in accordance with American National Standard Institute A300 *Standard Practices for Wood Plant Maintenance* specifications and that trees will be planted in accordance with the enclosed "Standard Tree Planting Detail."

Suzie Cue, Director of Public Works
Name and Title of Representative

Suzie Cue 05-10-05
Signature of Representative Date

Bill Faeth 05-10-05
Signature of Missouri Department of Conservation Forester Date

Requirement 2 - Narrative

Redbud, Missouri - *TRIM* Cost Share Program Application

Project Background and Description:

The City of Redbud is trying to improve the quality of life for its citizens. Until just recently the community had not taken an interest in trees. The City has appointed a Tree Advisory Board to improve the aesthetics throughout the community and find ways to deal with people driving too fast in town, especially near the school on Broad Street.

Even though there is a 25mph speed limit, with 15mph during school hours, drivers tend to exceed this. We are planning to plant street trees on the street right-of-way to make it appear narrower, and thereby reduce the speed of drivers.

The Redbud Tree Advisory Board and City of Redbud Public Works have been working closely with the Missouri Department of Conservation to develop a master tree management plan for our community forest. We will focus our attention on Broad Street, the street the feeds our elementary and secondary school campus. Specifically we would like to implement three elements of that master plan through the **TRIM** cost share program.

Hazard Tree Removal

The 5 trees to be removed were identified as hazardous in a tree inventory completed last year. A professional tree service will be contracted to perform the removal work in compliance with the City of Redbud's Tree Ordinance. All work will be done according to ANSI A-300 Standards for Tree Maintenance.

Removal of these 5 trees will increase public safety along Broad Street while making room for new trees which are better adapted to the street right-of-way.

Education

The City of Redbud will work to educate citizens on tree care, tree maintenance and the importance of not topping trees. Three mailings of educational materials will be sent to citizens through their utility bills. This will be an easy and effective means of distributing information to all citizens.

Tree Planting

The 31 trees to be purchased are recommended in the master plan for shading of impervious surfaces and reduction of traffic speed. Ten Autumn Blaze maples, seventeen Autumn Purple ash and four skyline honeylocust trees will be planted along the Broad Street right-of-way, eight feet from the road surface. A local nursery will be employed to install, mulch, and water all trees in this project as per the *MDC Standard Tree Planting Detail*.

There are no overhead power lines that will cause conflict in future years. Before planting trees, the City will call 1-800-DIG-RITE to make sure underground utilities will be avoided. The City of Redbud has agreed to care for the trees and develop a branch canopy with careful pruning, which will provide necessary clearance for traffic.

Requirement 2 - Narrative continued

Redbud, Missouri *TRIM* Cost Share Program Application

Participants and Their Roles

- Redbud Public Works Department - Responsible for project. Will coordinate purchase of trees, installation, tree removals and educational materials to be distributed. Will maintain the trees after installation.
- Missouri Department of Conservation - The Public Works Department will work with the local Forester to coordinate educational efforts.
- Redbud Chamber of Commerce - Local businesses through the Chamber are sponsoring additional trees.
- Trees Are Us Nursery - A local nursery that has put together a tree planting and installation cost estimate. Local nurseryman on staff that will assist with tree maintenance and care.
- We Don't Top Tree Care - A professional arborist employing 2 International Society of Arboriculture Certified Arborists will remove the 5 hazardous trees. The contractor will furnish all equipment for this project.

Facilities and Equipment

All equipment for planting and tree removal will be provided by the contractor. The Redbud Parks and Recreation Department will be assisting us with the watering planted trees as they already have 250 gallon truck mounted watering tank. The Public Works Department will handle all mulching with chips from the Utility Department. All pruning will be done by Public Works employee with existing hand pruning tools. Printing of educational materials will be handled by a contractor and Utility Department staff will stuff the envelopes.

Completion Timetable

DATE	ACTIVITY
August	Notification of Application Approval
September	Advertise for formal bids for project and award bids
September	First educational pamphlet to citizens. Tentative topic: Tree Pruning
November	Contractor begins planting new trees along Broad Street
November	Contractor begins removal of hazardous trees
January	Completion of planting and removal
January	Second educational pamphlet to citizens. Tentative topic: Anti- Tree Topping Information
April	Third educational pamphlet distributed to citizens. Tentative topic: Tree Planting and Maintenance
April	Submit final paper work to MDC for reimbursement and request inspection of project by local MDC Forester

Requirement 2 - Narrative continued

Redbud, Missouri TRIM Cost Share Program Application

Project Administrator

Suzie Cue, Director Public Works
City of Redbud
P.O. Box 0001
Redbud, MO 65555
Phone: (111) 555-1212
Fax: (111) 555-2121
Cueball@freemail.com

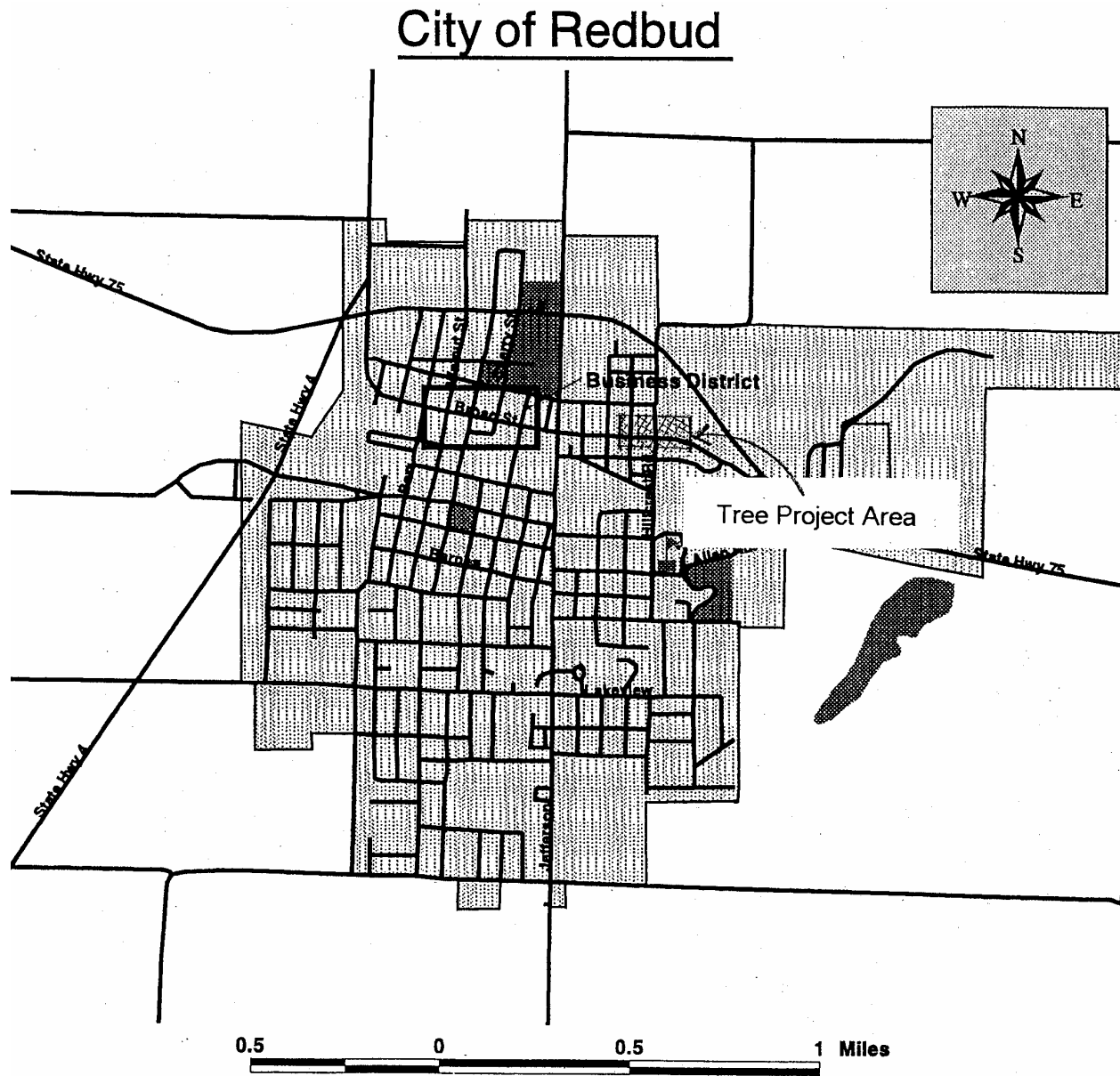
End Product

Redbud is located in Cypress County. This area has experienced a population explosion in the last ten years and currently has approximately 12,000 residents within the city limits. Broad Street is the main artery into the newest and largest subdivision. More people than ever are using Broad Street to reach their destination. Traffic count on the road averages 2,000 vehicles per day. All of these travelers will benefit from the improved safety created by the removal of the hazard trees and all will enjoy the new trees as they bloom and grow to provide shade. This whole project is designed to maintain our current trees, educate our citizens and establish new trees that will provide a positive benefit for the entire community.

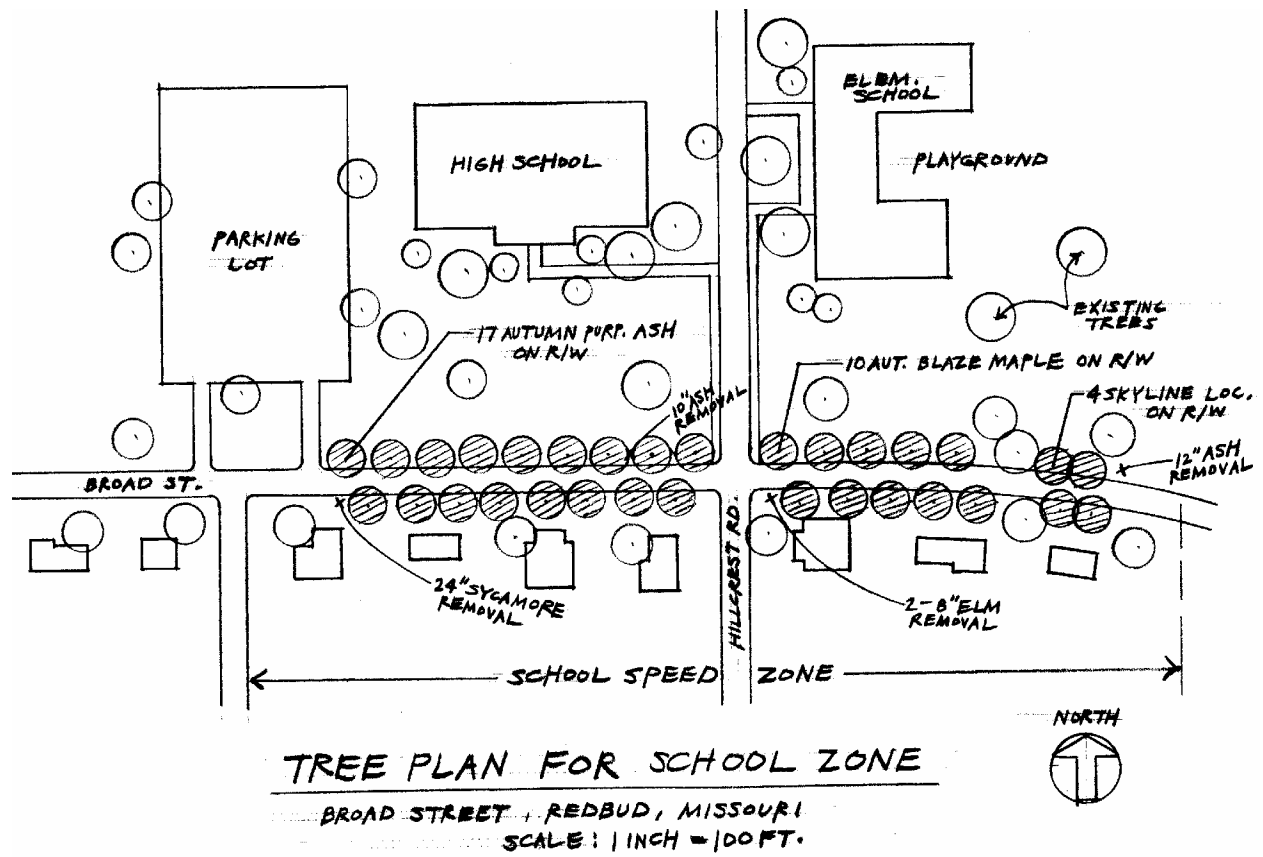
Work done with the combined resources of the City Public Works Department and the Chamber of Commerce will create a safer, more aesthetically pleasing, and environmentally friendly environment.

A great deal of thought and planning has gone into this cost-share application. There is no doubt that this seed money will encourage a sustainable, balanced and comprehensive community tree program for the future in this community.

Requirement 3 - Location Map



Requirement 3 - Planting Map if applicable



Requirement 4 - Itemized Budget



The City of Redbud, Missouri Mayor: Dale Clemmons

P.O. Box 0001
665 Barnes
Redbud, MO 655555
Phone: (111) 555-1212
Fax: (111) 555-2121

Itemized Budget City of Redbud

Project: Tree removal & planting Broad Street; design & distribution of educational materials to Redbud citizens

REIMBURSABLE COSTS

<i>Contract Labor</i> (removal 5 trees) (We Don't Top Tree Care - bid enclosed)	\$3,400.00
<i>Educational program materials</i> (printing) (Fast Print - bid enclosed)	\$1,800.00
<i>Trees for planting</i> (31) (Trees Are Us Nursery - bid enclosed) Less discount	\$2,922.00
<i>Contract labor for tree planting</i> (\$50/tree) (Trees Are Us Nursery)	\$1,550.00
<i>Subtotal</i>	<i>\$9,672.00</i>

NON-REIMBURSABLE COSTS

<i>Administrative Cost</i> (20 hrs @ 22.50/hr) (Suzie Cue's time used to administer project- award bids, oversee work, and finalize paper work)	\$ 450.00
<i>Paid employee labor</i> (40 hrs @ 15.00/hr for Utility Department to design 3 pamphlets; 10 hrs @ \$7.00 to stuff pamphlets)	\$ 670.00
<i>Nursery Discount</i> (refer to nursery bid)	\$1,118.00
<i>Subtotal</i>	<i>\$2,238.00</i>

Total Project Costs ***\$11,910.00***

Requirement 4- Itemized Budget

Trees Are Us Nursery

Highway 75, P.O. Box 53
Redbud, MO 65555
Phone: (111) 555-1234

City of Redbud, Missouri
Tree Planting Project for TRIM
Propose Planting for Broad Street

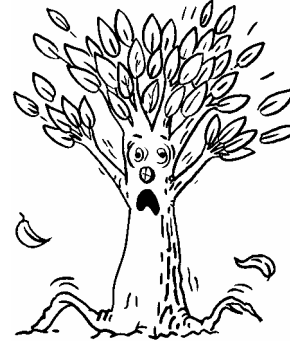
Quantity	Tree Species	Size (inches)	Price/Tree	Price/Species
10	Autumn Blaze Maple	1 ½ caliper	\$120.00	\$ 1,200.00
17	Autumn Purple Ash	1 ½ caliper	\$120.00	\$ 2,040.00
4	Skyline Honeylocust	2 ½ caliper	\$200.00	\$ 800.00
				Subtotal \$4,040.00
Installation per Tree		(Includes mulch, watering, staking if necessary, & labor)	\$50.00	\$1,550.00
				Subtotal \$5,590.00
Nursery Discount-20% For trees				(\$1,118.00)
				Total \$ 4,472.00

Trees Are Us Nursery will replace all trees that do not survive the 12 months after installation at no cost to the city.

Caleb Finnely
Nursery Owner

Requirement 4 - Itemized Budget

We Don't Top Tree Care



Mark Swiss, Owner
International Society of Arboriculture Certified Arborist
2390 W. Far Street
Oslo, MO 65454
Phone: (111) 555-6733
Fax: (111) 555-6788

Estimate for City of Redbud
March 2005

Remove two 8" DBH American elm at Broad Street and Hillcrest Rd	\$ 600.00
Remove one 24" DBH American Sycamore at 212 Broad St.	\$1,100.00
Remove one 12" DBH green ash at 511 Broad St.	\$ 700.00
Remove one 10" DBH green ash at 387 Broad St.	\$ 500.00
Remove stumps (\$50 ea.)	\$ 500.00
Total	\$3,400.00

THANK YOU FOR YOUR BUSINESS

Requirement 4 - Itemized Budget

Fast Print

You Create It . . . We Can Print It

Highway 75, P.O. Box 123

Redbud, MO 65555

Phone: (111) 555-9090

Fax: (111) 555-8765

Print

1 page pamphlet double-sided 12,000 copies tri-fold

5 cents a page = \$ 600

3 sets 12,000 copies = 36,000 copies @ 5 cents = \$1,800.00

Total cost \$1,800

The above costs serves as estimate only given on April 1, 2005.

Requirement 5 – Three-Year Maintenance Plan

(for Tree Planting only)

Redbud, Missouri TRIM Cost Share Program Application

Three Year Tree Maintenance Plan for Planted Trees

DATE	ACTIVITY	CARETAKERS
November	Trees installed, mulched and fertilized by local nursery as per MDC Standard Tree Planting Detail. Trees will be watered at planting.	Local nursery
April	Any trees that did not survive the winter will be replaced.	Redbud Public Works Department
Summer First year	Trees will be watered and inspected for insect and disease problems weekly as needed from June to September	Redbud Parks and Recreation Department - Bob Cobb and as needed local MDC Forester for insect and disease identification
October First year	Trees will be remulched and any dead branches pruned. Any trees that did not survive the summer will be replaced.	Redbud Public Works and Redbud Utility Department (chips)
Summer Second year	Trees will be watered and inspected for insect and disease problems weekly as needed from June to September	Redbud Parks and Recreation Department - Bob Cobb and as needed local MDC Forester for insect and disease identification
October Second year	Trees will be remulched and any dead branches will be pruned.	Redbud Public Works and Redbud Utility Department (chips)
Summer Third year	Trees will be watered and inspected for insect and disease problems weekly as needed from June to September	Redbud Parks and Recreation Department - Bob Cobb and as needed local MDC Forester for insect and disease identification
October Third year	Trees will be remulched and any dead branches will be pruned.	Redbud Public Works and Redbud Utility Department (chips)
January Fourth year	All trees will be pruned to correct structural problems and to provide clearance for sidewalk and vehicles.	Redbud Public Works Department

Requirement 6 - Letter of Permission if applicable



**The City of Redbud
Missouri
Mayor: Dale Clemmons**

April 3, 2005

Redbud Lions Club
Hwy 75, P.O. Box 0000
Redbud, MO 65555

Dear Mr. Lyon:

The City of Redbud would like to express our support of the tree inventory project that your service organization has proposed in the park. The tree selected for planting fit with our master plan for the park and the locations will not present any difficulty to our maintenance of the park.

Thank you for your interest in our community. I look forward to working with you.

Sincerely,

Suzie Cue
Public Works Director
City of Redbud

Appendix B

Sample Long Range Plan

Note:

A long range plan is not required for TRIM applications. However, it will be very helpful to demonstrate how a project relates to management of the community's total tree resource.

A tree management plan should outline what work will be done and who will accomplish it, within a given time frame. Some type of inventory is desirable to properly evaluate the tree resource and to proactively plan work.

City of Redbud Tree Management Plan - Initial Plan 2005

Introduction

The City of Redbud has had a Tree Planting Committee since 1986. In 1998, this committee was formally changed to the Redbud Tree Board when the city's tree ordinance was passed as part of an effort to improve the health of Redbud's trees and to qualify as a Tree City USA. This plan is part of those continuing efforts. The plan includes inventory, high risk tree assessment and removal or pruning, routine pruning according to ANSI A300 specification, training of city employees and volunteers, and tree planting.

Inventory

The basis for a good community tree management plan is good data about the community's trees. Redbud's street and park trees will be inventoried over a four year period by a professional forester and volunteers. Main Street and First Street divide the City into quadrants. The northwest quadrant will be inventoried first, then the northeast, then the southeast, and finally the southwest. The inventory will be comprehensive and will include data about tree species, size, condition, maintenance needs and priority, and location. High-risk trees will be assigned the highest priority for maintenance. The locations will be mapped into the City's Geographic Information System. A professional forester will coordinate the inventory and will train volunteers to help carry out the inventory. City personnel will assist with mapping, data base set-up, data entry, and inventory so that the data will be most useful to the people who use it most.

Tree Maintenance

Inventory data will be used to schedule high-risk tree maintenance (removal or pruning) first, then routine tree maintenance for each quadrant in the year of and the year following the inventory. It is expected that with additional training, city crews will be able to complete most of the routine maintenance as well as some of the high-risk tree pruning and removal. There will undoubtedly be a need to contract with an arborist for work that is beyond the capabilities of city crews and equipment, but only the most rudimentary of estimates will be available until the first phase of the inventory is complete.

Training

The city will contract with a professional forester or arborist to provide pruning training using ISA (International Society of Arboriculture) materials. In future years, training in other aspects of tree care will be provided, and at least one crew member will be encouraged to become a certified arborist.

Tree Planting

Tree planting efforts will be concentrated on the newly developed Redbud Park for the next two or three years. The Parks and Recreation Department has a planting plan that can be divided into phases for this purpose. Future street right-of-way planting plans will follow the inventory, and will be based on identified potential planting spaces.

Implementation Schedule

2005-2006

Inventory northwest quarter of city. (Tree board, consultant, volunteers)
Complete pruning training for city public works crews. (Consultant, Public Works)
Complete high priority tree maintenance in the northwest quarter. (Public Works)
Plant 31 trees along Broad Street. (Tree Board, volunteers)

2006-2007

Inventory northeast quarter of city. (Tree Board, consultant, volunteers)
Complete high priority tree maintenance in the northeast quarter. (Public Works)
Complete routine tree maintenance work in the northwest quarter. (City)
Plant 50 – 100 trees at Redbud Park. (Tree Board, volunteers)
Remulch and inspect trees planted in 2005. (Tree Board, volunteers)

2007-2008

Inventory southeast quarter of city. (Tree Board, consultant, volunteers)
Complete high priority maintenance in the southeast quarter. (Public Works)
Complete routine maintenance in the northeast quarter. (Public Works)
Plant 50 trees at Redbud Park. (Tree Board, volunteers)
Remulch and inspect trees planted in 2005 and 2006. (Tree Board, volunteers)

2008-2009

Inventory southwest quarter of city. (Tree Board, consultant, volunteers)
Complete high priority maintenance in the southwest quarter. (Public Works)
Complete routine maintenance in the southeast quarter. (Public Works)
Remulch, inspect, replant as needed, all Redbud trees. (Tree Board, volunteers)

2009-2010

Complete any delayed high priority maintenance. (Public Works)
Complete routine maintenance in southeast quarter. (Public Works)
Choose a planting project based on inventory information. (Tree Board, volunteers)

2010-2011

Review this plan, begin inventory cycle again, review routine maintenance schedule, choose planting project. (Tree Board, Public Works, volunteers)